AWIPS SOFTWARE INSTALLATION INSTRUCTION NOTE 45
(for Electronics Systems Analysts)
Maintenance, Logistics, and Acquisition Division
W/OPS12: JCS

SUBJECT	:	Maintenance Release OB2.3
PURPOSE	:	To provide installation instructions for Maintenance Release OB2.3
AFFECTED SITES	:	All AWIPS sites must install this maintenance release.
PREINSTALLATION REQUIREMENTS	:	AWIPS Software Maintenance Release OB2.2 must be installed.
AUTHORIZATION	:	The authority for this modification note is Request for Change AB770. MROB2_SEC_A100450
SECURITY LEVEL	:	root
ESTIMATED TIME REQUIRED	:	Approximately 1.5 to 3 hours, depends on the number of workstations.
EFFECT ON OTHER INSTRUCTIONS	:	File this note in EHB-13, section 3.1. Discard all previous software installation instructions, prior to Build OB1 (AWIPS Software Installation Instruction Note 37) in section 3.1.
VERIFICATION STATEMENT	:	The Maintenance Release OB2.3 installation procedures were tested and verified at NMT systems (Silver Spring, MD), ILN (Wilmington, OH), JKL (Jackson, KY), LWX (Sterling, VA), MAF (Midland, TX), MOB (Mobile, AL), RNK (Roanoke, VA), TAR (Taunton, MA), VRH (Alaska Region Headquarters, AK)
TECHNICAL SUPPORT	:	For questions or problems regarding these installation instructions or installing this Release, please contact the NCF at 301-713-9344.

GENERAL:

Maintenance Release OB2.3 contains security patches that are required for the AWIPS security
to comply with a requirement for NOAA security Certification and Accreditation (C&A).

A. MROB2.3 Patch Summary

1. AWIPS Security Vulnerabilities on Linux platforms (DR #13528)
2. AWIPS Security Vulnerabilities on HP platforms (DR #13527)

ROB2.3 Detailed Description:

1. AWIPS Security Vulnerabilities on Linux platforms (DR #13528)
    Update baseline AWIPS Linux platforms (AX, LX, CPSBN) based on high-risk security
    vulnerabilities as identified by the Harris security scanning tool.

CPSBN1/CPSBN2 Patches:

VULNERABILITY	HARRIS #	RPMs
OpenSSH (UseLogin)	L0052	openssh-3.1p1-14.i386.rpm openssh-clients-3.1p1-14.i386.rpm openssh-server-3.1p1-14.i386.rpm openssh-askpass-3.1p1-14.i386.rpm openssh-askpass-gnome-3.1p1-14.i386.rpm
OpenSSH (Channel Alloc)	L0093	(above)
OpenSSH (Challenge/Resp)	L0170	(above)
OpenSSL (Hand Shaking)	L0183	openssl-0.9.6b-35.7.i386.rpm openssl-devel-0.9.6b-35.7.i386.rpm
* Apache (4 vulnerabilities)	L0258	apache-devel-1.3.27-2.7.2.i386.rpm apache-manual-1.3.27-2.7.2.i386.rpm apache-1.3.27-2.7.2.i386.rpm mod_ssl-2.8.12-3.i386.rpm
CVS (Double Free)	L0266	cvs-1.11.1p1-8.7.i386.rpm
Sendmail (Header Parsing)	L0278	sendmail-cf-8.11.6-27.72.i386.rpm sendmail-8.11.6-27.72.i386.rpm
Sendmail (Header Parsing)	L0313	(above)
Wu-FTP (File Globbing)	L0054	wu-ftpd-2.6.2-11.72.1.i386.rpm
Wu-FTP (Off by One)	L0403	(above)

LX's/AX Patches:

VULNERABILITY	HARRIS #	RPMs
OpenSSH (Challenge Resp)	L0170	openssh-3.1p1-14.i386.rpm openssh-clients-3.1p1-14.i386.rpm openssh-server-3.1p1-14.i386.rpm openssh-askpass-3.1p1-14.i386.rpm openssh-askpass-gnome-3.1p1-14.i386.rpm
OpenSSL (Hand Shaking)	L0183	openssl-perl-0.9.6b-35.7.i386.rpm openssl-0.9.6b-35.7.i386.rpm openssl095a-0.9.5a-23.7.3.i386.rpm openssl096-0.9.6-23.7.i386rpm openssl-devel0.9.6b-35.7.i386.rpm
* Apache (4 vulnerabilities)	L0258	apache-devel-1.3.27-2.7.2.i386.rpm apache-manual-1.3.27-2.7.2.i386.rpm apache-1.3.27-2.7.2.i386.rpm mod_ssl-2.8.12-3.i386.rpm
Apache (Mod Auth Any)	L0298	mod_auth_any-1.2.2-2.i386.rpm
CVS (Double Free)	L0266	cvs-1.11.1p1-8.7.i386.rpm
Krb5 (V4 Compatibility)	L0249	krb5-devel-1.2.2-24.i386.rpm krb5-libs-1.2.2-24.i386.rpm krb5-server-1.2.2-24.i386.rpm krb5-workstation-1.2.2-24.i386.rpm
Sendmail (Header Parsing)	L0278	sendmail-cf-8.11.6-27.72.i386.rpm sendmail-8.11.6-27.72.i386.rpm sendmail-doc-8.11.6-27.72.i386.rpm
Sendmail (Header Parsing)	L0313	(above)
Wu-FTP (Off by One)	L0403	wu-ftpd-2.6.2-11.72.1.i386.rpm
** Xinetd (Denial of Service)	XXXXX	xinetd-2.3.11-1.7x.i386.rpm

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* Apache -- OS&T had planned to remove the apache RPMs from all AWIPS boxes and install their own (AWIPS-built) apache (v. 1.3.29) in `/usr/local` on the PXs only.

** Xinetd -- fixes avnfps problem (reported 11/17/03 by G.Trojan).

2. AWIPS Security Vulnerabilities on HP platforms (DR #13527)
    Update baseline AWIPS HP platforms (DS, AS, WS, LS) based on high-risk security
    vulnerabilities identified by the Harris security scanning tool.

This is the content of the MWGlance.depot:

MeasureWare   C.02.60.000   HP GlancePlus/UX for s800 10.20
GlancePlus   C.02.60.000   HP MeasureWare Server Agent for s800 10.20

This is the content of the OB2.3patch.depot, with 2 patches indented to indicate they are
dependencies:

PHCO_27133 s700_800 10.20   lpspool subsystem cumulative patch
PHCO_28717 s700_800 10.20   wall(1M) patch
PHNE_23277 s700_800 10.01-[12]0 BIND 4.9.7 components
PHNE_23948 s700_800 10.20   ftpd(1M) and ftp(1) cumulative patch
PHNE_28760 s700_800 10.20   sendmail(1m) 8.9.3 cumulative patch
PHSS_29201 s700_800 10.20   CDE Runtime Patch
PHSS_20861 s700_800 10.20   X/Motif Runtime MAR2000 Periodic Patch
PHSS_29204 s700_800 10.20   CDE Message Catalog Patch

PHSS_20861 & PHSS_29204 are the HP recommended dependencies for PHSS_29201

NOTE: 1. The MeasureWare tool is being upgraded so that the tool will not lock up the CPU
             on future Harris scans.

        2. Glance is being included just to make sure it works with the new MeasureWare
            since they are bundled together

Pre-installation Guidelines

1. ROB2.2 must be installed.
2. Check http://www.ops1.nws.noaa.gov/awips_softwre.htm web page for the lessons learned
    document for this release.
3. Logout of all the D2D sessions on all HP workstations and all Text Workstations.
4. For this install ONLY, users may remain logged into the Linux platforms.
5. Note that Each HP Workstation will reboot during this installation.

This completes the pre-installation procedure.

B. Maintenance Release Download and PX Installation Procedure

1. Log into an LX workstation to start the following process.

2. Installer must be log into PX2 as `root`:

>   **rlogin px2-<site> -l root**

3. Change to the `/data/local/ROB2.3` directory:

>   **cd /data/local/ROB2.3**

4. Create a script output log file:

>   **script -a -f ROB2.3.out**

5. Run the installation script by typing:

>   **./installROB2.3**

6. No need to script the output any longer:

>   **exit**

This completes the maintenance release download and DS1 installation procedure.

C. Post Installation Checkout Procedure

>   Check for any files that may not have been removed/copied correctly, Type:

>   **grep -iE 'fail|error' ROB2.3out**

NOTE: 3. Expect the following error, if the site does not have an LDAD Server:
>   [gw: Host name lookup failure]

>   4.   The following errors may be ignored in an HP Workstation (WS) or the LDAD
>   Server (LS). This error is for one (1) fileset only. (*<site>* refers to site ID)

```
[ ERROR:    "ws1-<site>:/":  1 check scripts failed.]
[ * "ws1-<site>:/":  1 filesets will be skipped because of an error ]
[ * The analysis phase failed for "ws1-<site>:/".]
[ * Analysis had errors.]
[ ERROR:    "ws1-<site>:/":  1 filesets were determined to be skipped
   in the ]
[ * The execution phase failed for "ws1-<site>:/".]
[ * Execution had errors.]
[ reboot: redirecting error messages to /dev/console]
```

(Look for errors installing patches.)

NOTE: 5.   Users can log back into their HP workstations and Text Workstations at this time.

This completes the maintenance release Post Installation procedure.

REPORTING INSTRUCTIONS

Report the completed software installation using the Engineering Management Reporting System (EMRS) according to the instructions in NWS Instruction 30-2104, Maintenance Documentation, Part 4, Appendix F. Include the following information on the EMRS Report:

Block #	Block Type	Information
5	Description	Install AWIPS Maintenance Release OB2.3 (patch bundle # MROB2_SEC_A100450)
7	Equipment Code	AWIPS
8	Serial Number	001
15	Comments	Installed Maintenance Release OB2.3 (patch bundle # MROB2_SEC_A100450) I.A.W. AWIPS Software Installation Instruction Note 45.
17a	Mod. No.	S45

A sample EMRS report is provided as attachment A.

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Attachment A - EMRS Report Sample

Attachment A - Sample EMRS Report